

# 1 Six

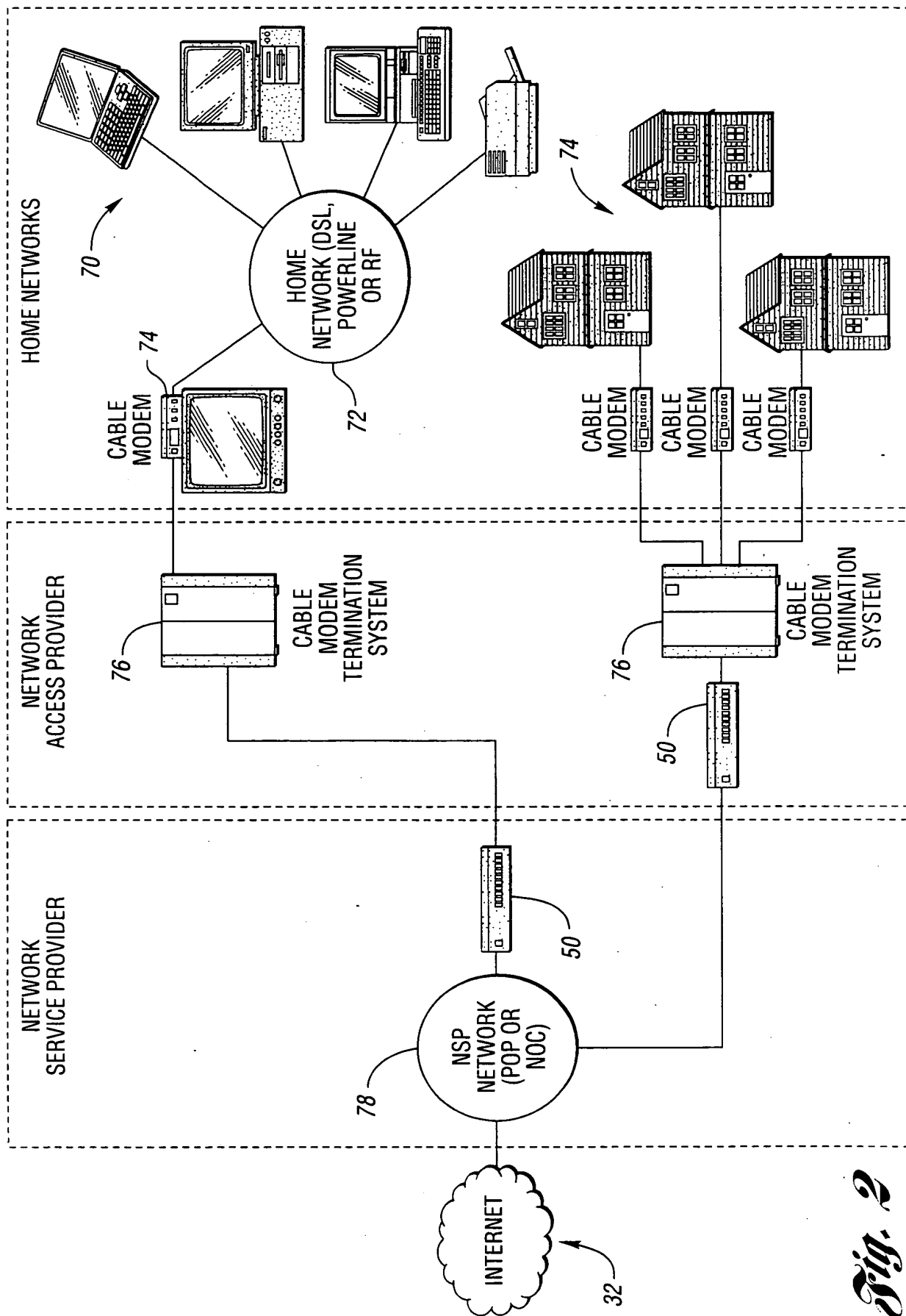
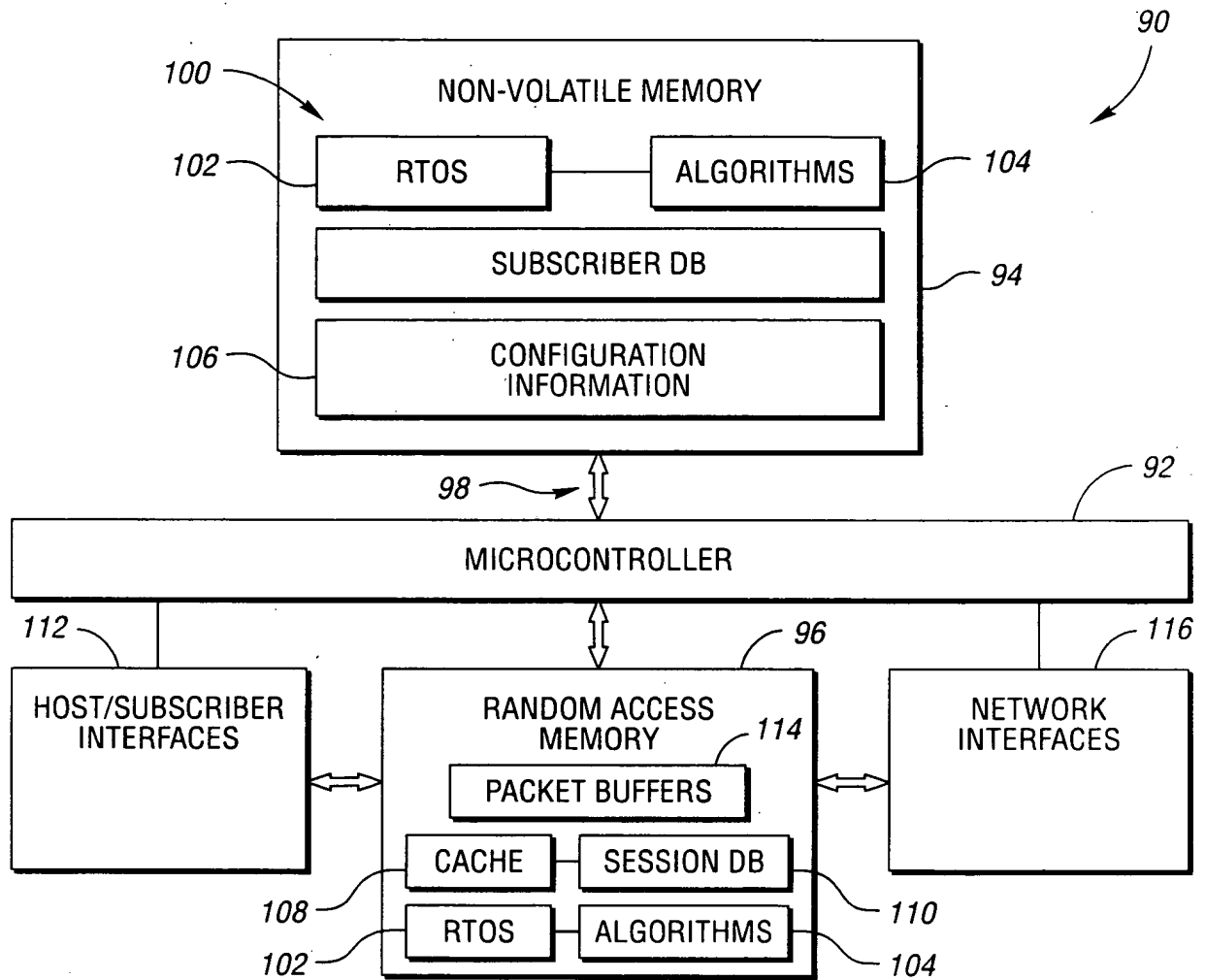
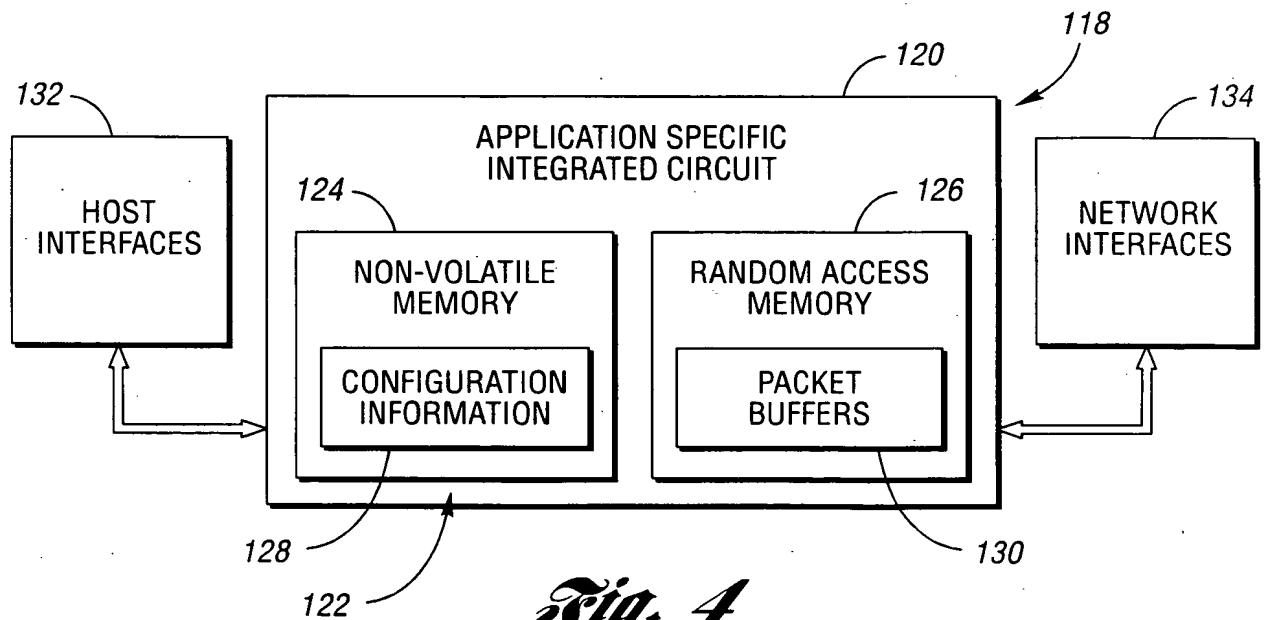


Fig. 2

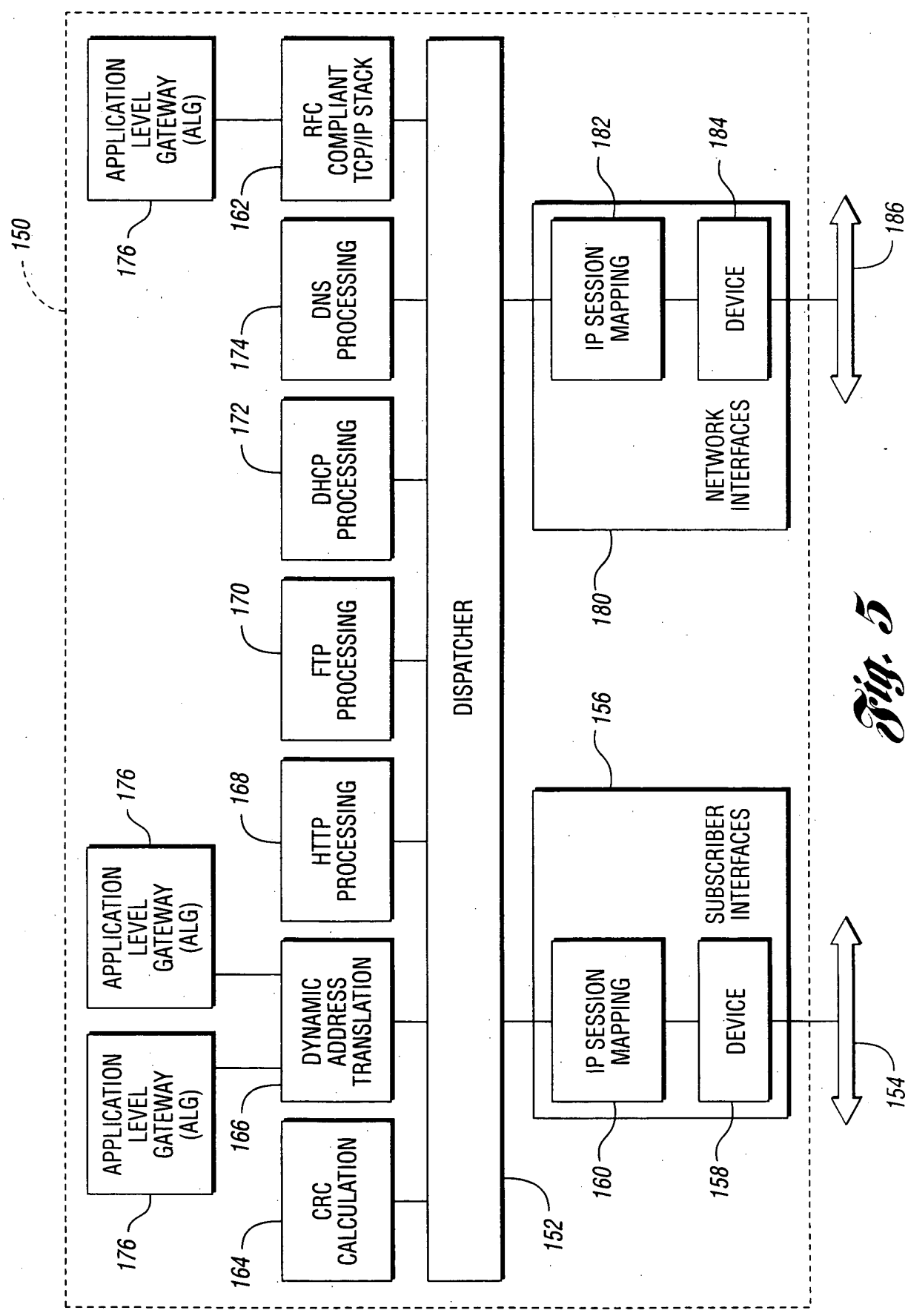


*Fig. 3*

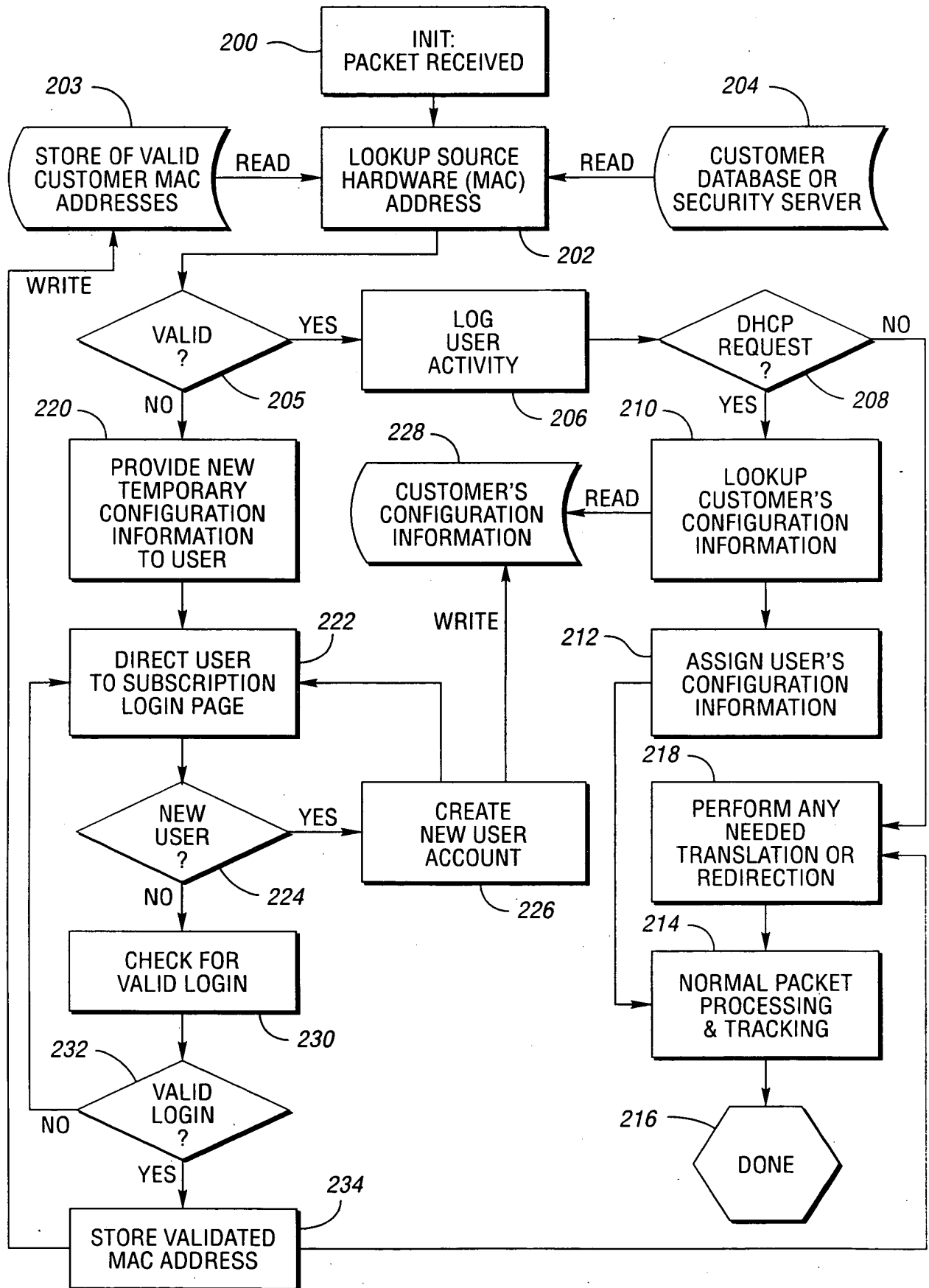


*Fig. 4*

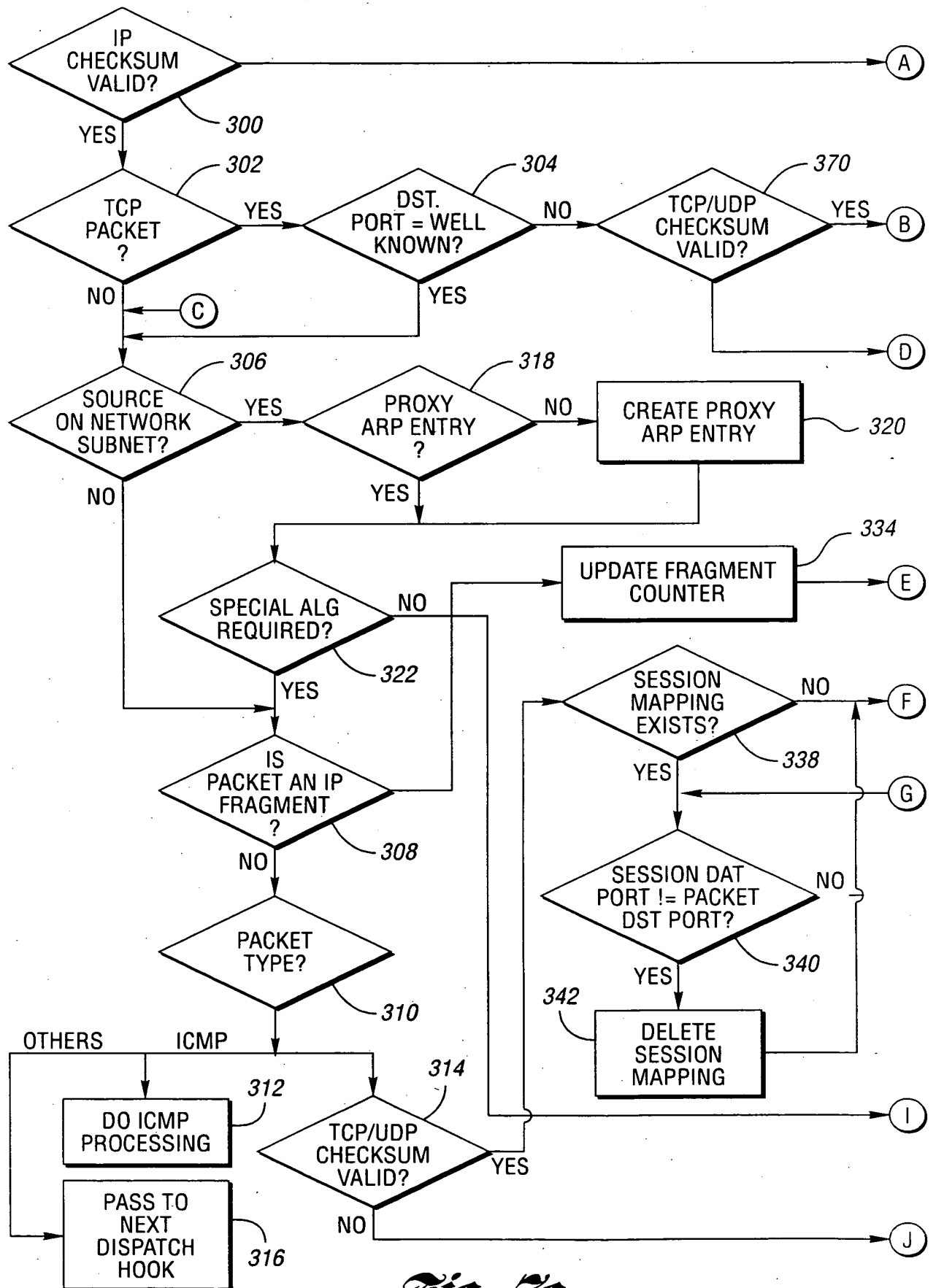
FIG. 5 is a block diagram of a network device 150, according to one embodiment of the present invention. The network device 150 includes a dispatcher 152, a subscriber interface 154, and a network interface 156. The subscriber interface 154 includes a subscriber interface device 158 and a subscriber interface IP session mapping 160. The network interface 156 includes a network interface device 184 and a network interface IP session mapping 182. The dispatcher 152 is connected to the subscriber interface 154 and the network interface 156. The dispatcher 152 also includes a CRC calculation block 164, a dynamic address translation block 166, an application level gateway (ALG) block 176, an HTTP processing block 170, an FTP processing block 172, a DHCP processing block 174, a DNS processing block 162, and an RFC compliant TCP/IP stack block 168.



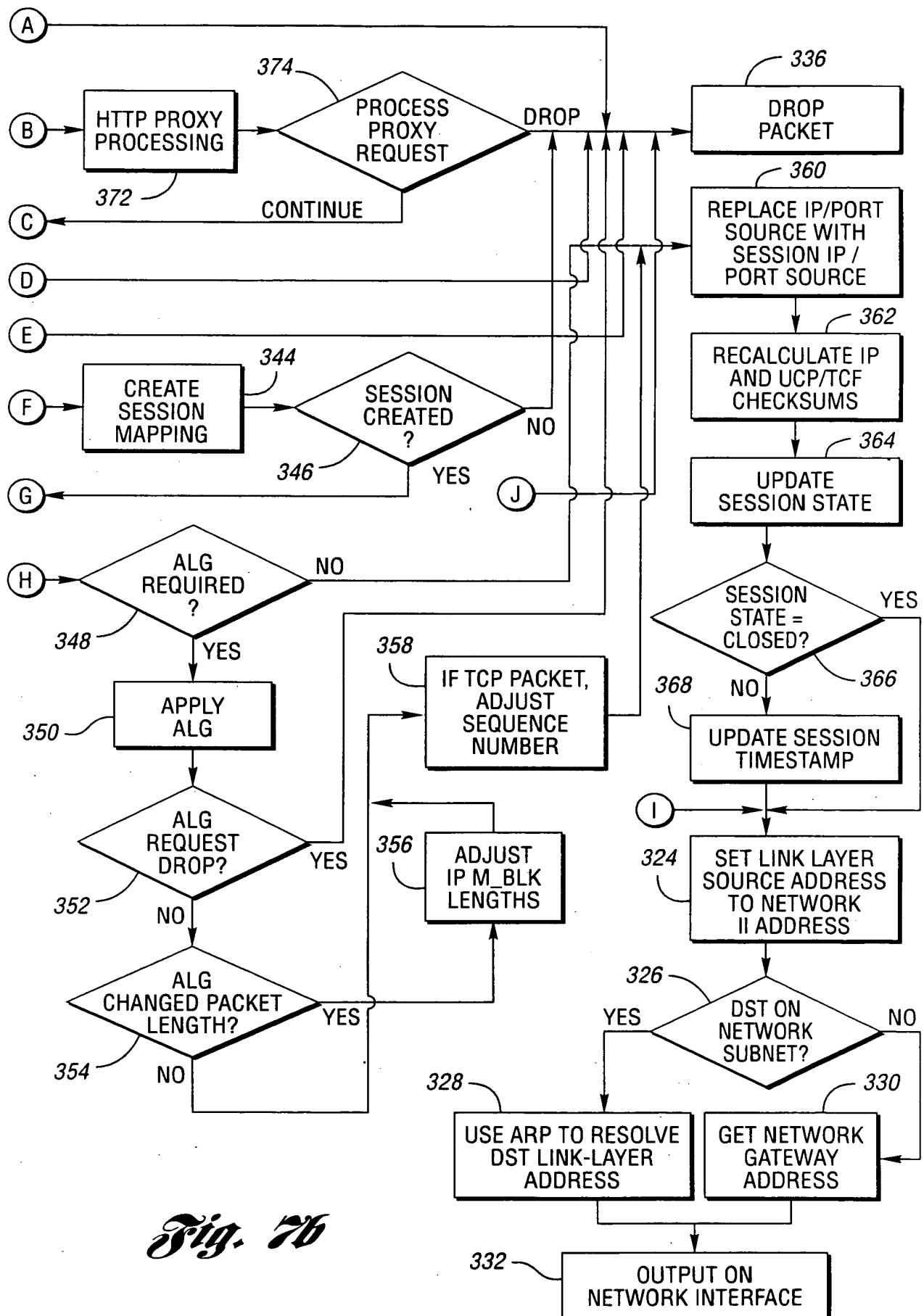
*Fig. 5*



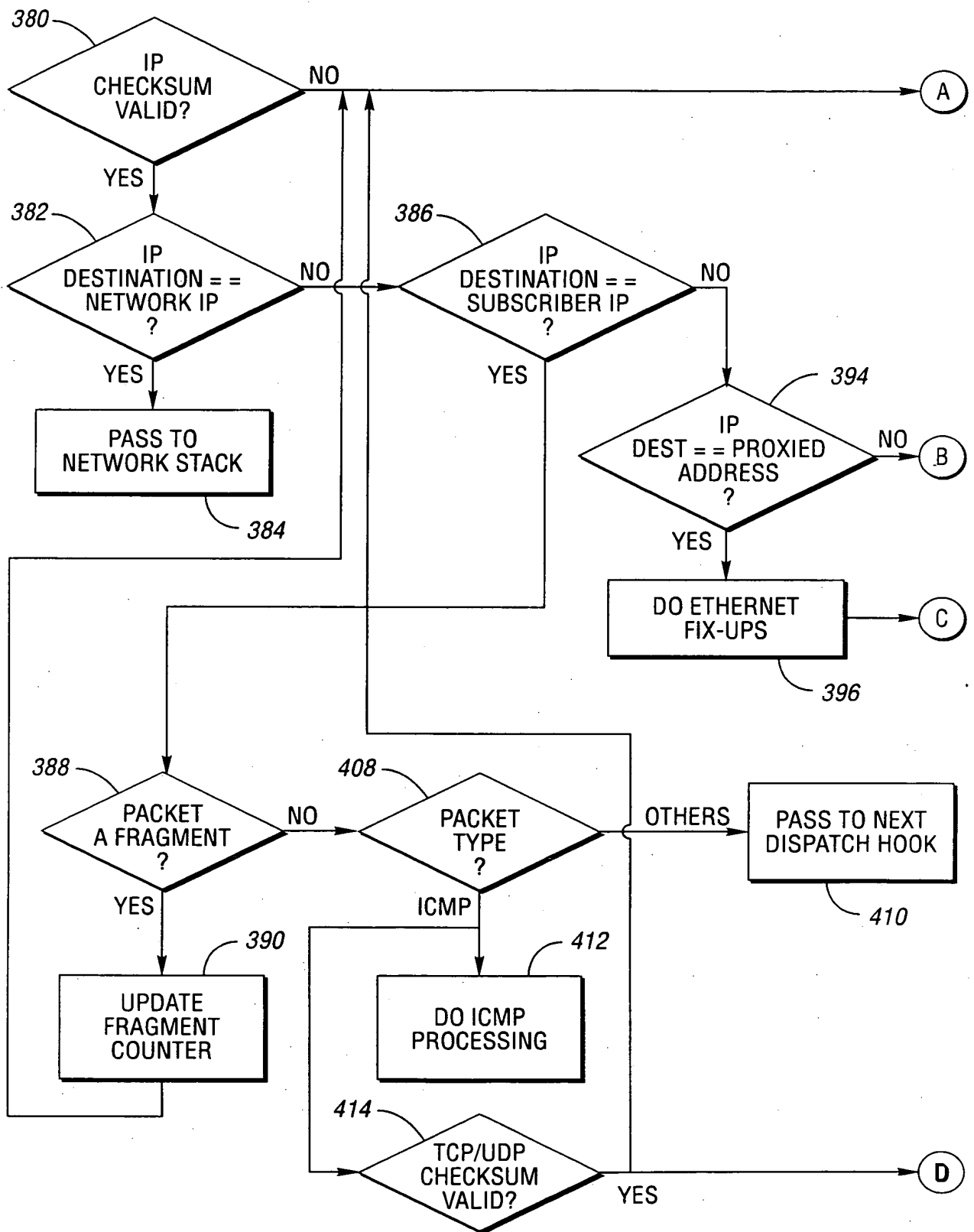
*Fig. 6*



*Fig. 7a*

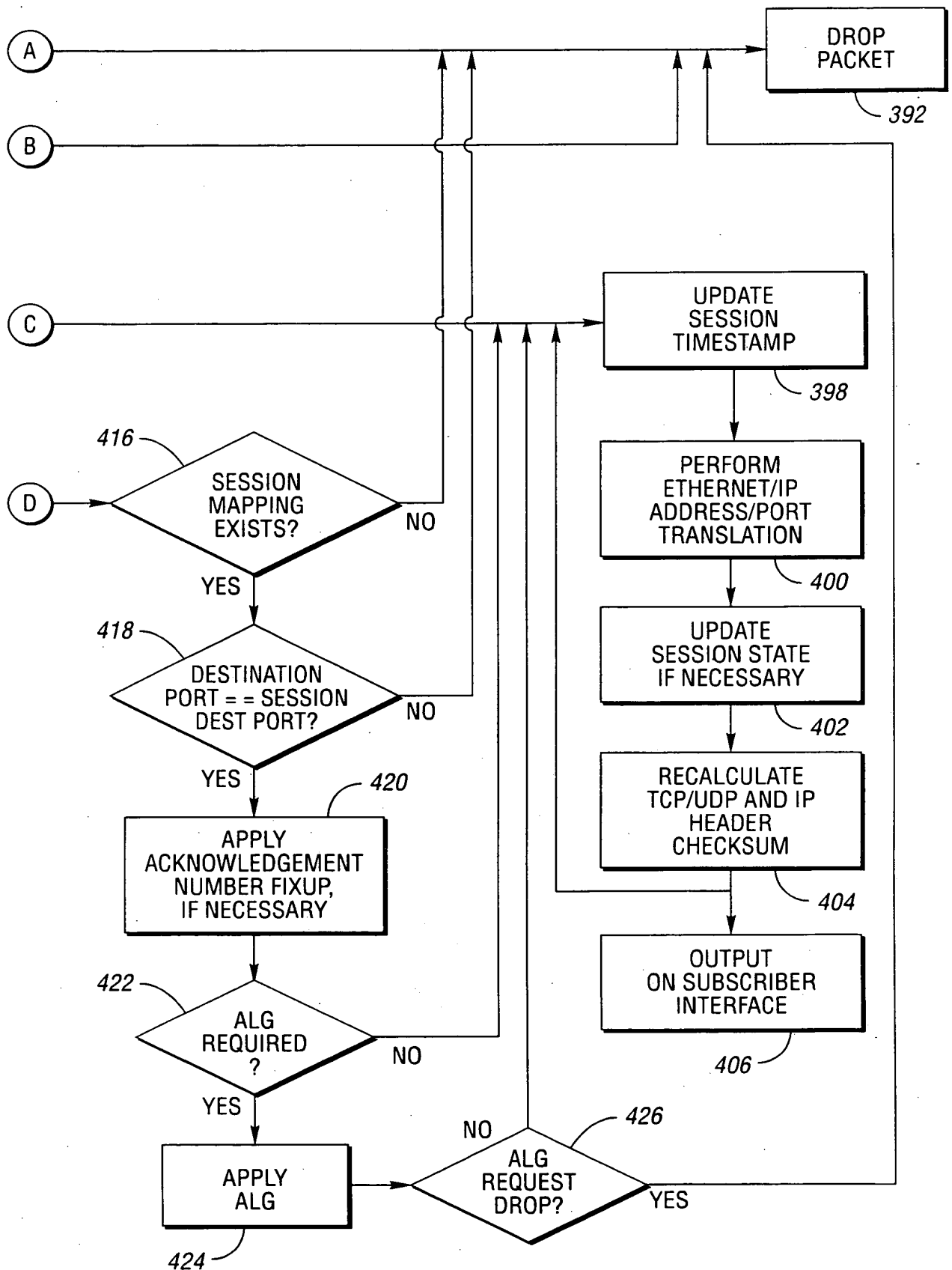


*Fig. 7b*

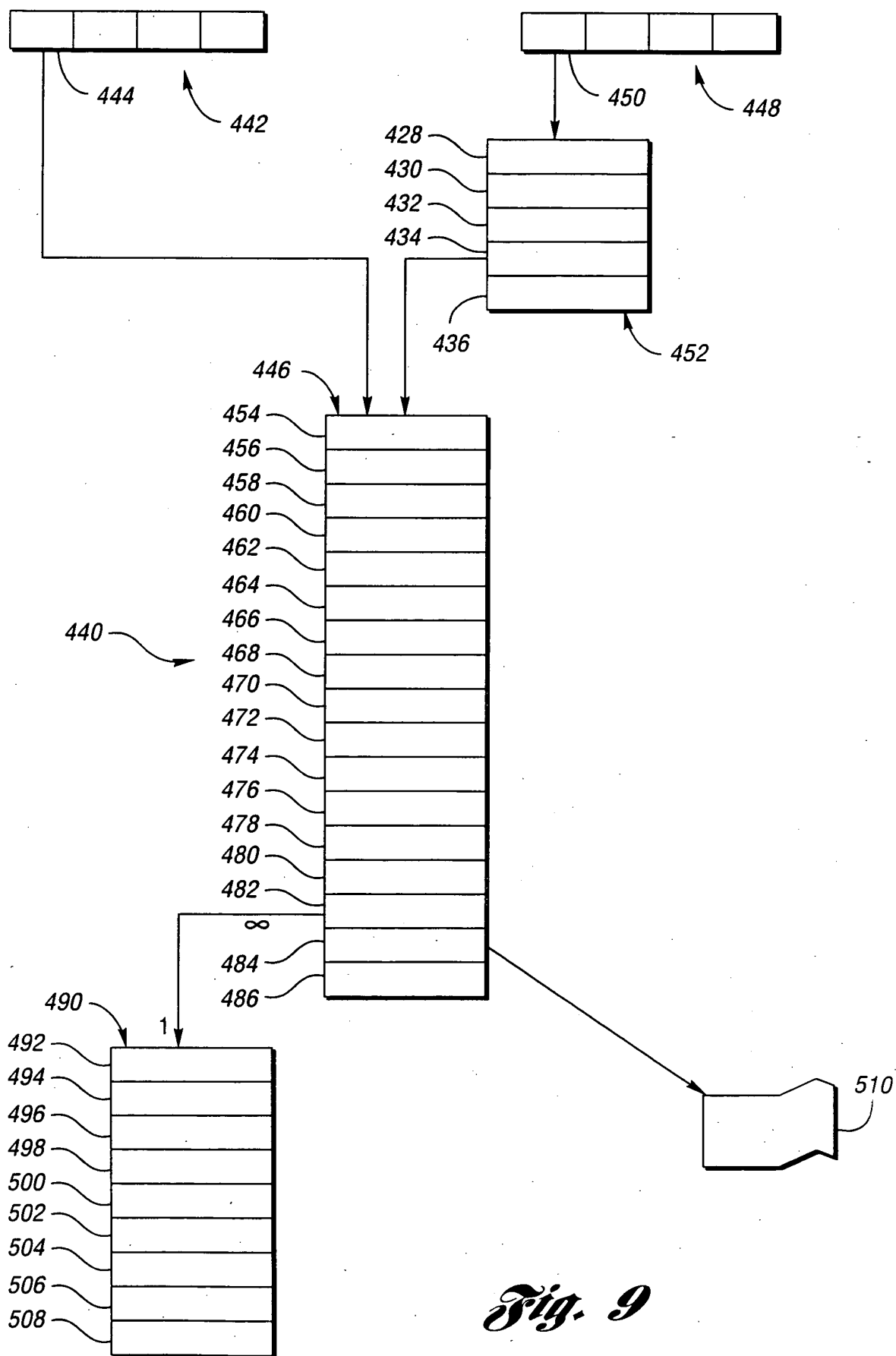


*Fig. 8a*





*Fig. 8b*

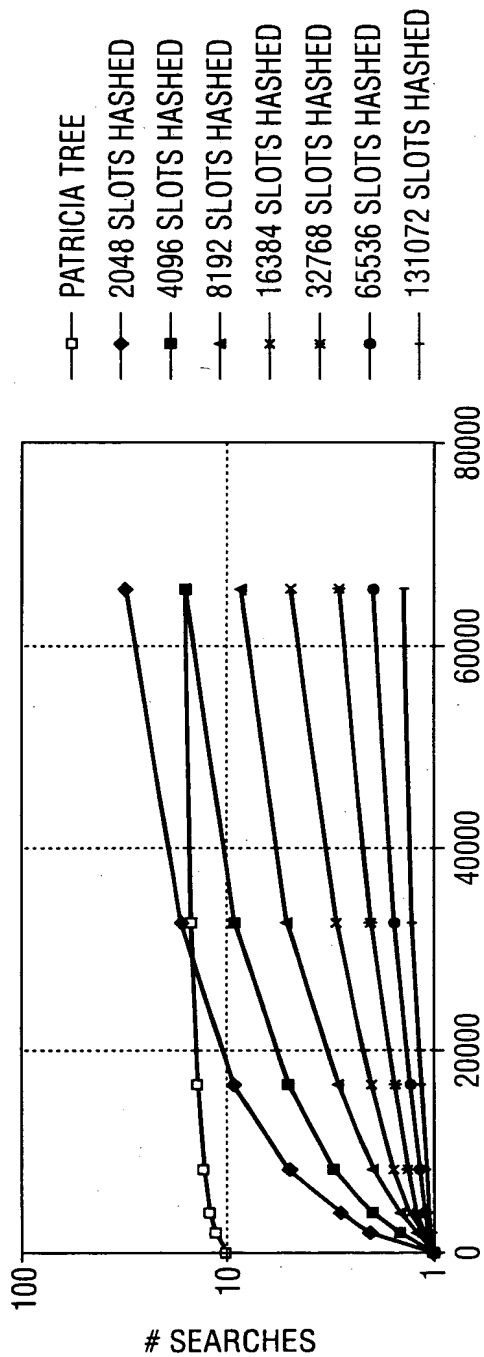


**Fig. 9**

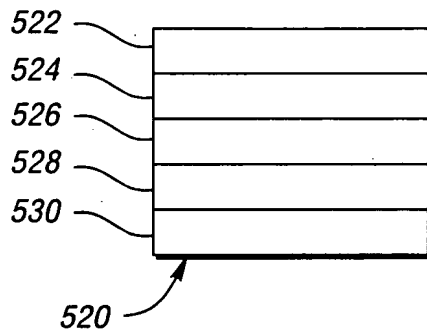
# SLOTS:	2048	4096	8192	16384	32768	65536	131072	PATRICIA TREE
# SESSION	256	512	1024	2048	4096	8192	16384	32768
	1.125	1.0625	1.0313	1.016	1.0078	1.00391	1.002	8
	1.25	1.125	1.0625	1.031	1.0156	1.00781	1.0039	9
	1.5	1.25	1.125	1.063	1.0313	1.01563	1.0078	10
	2	1.5	1.25	1.125	1.0625	1.03125	1.0156	11
	3	2	1.5	1.25	1.125	1.0625	1.0313	12
	5	3	2	1.5	1.25	1.125	1.0625	13
	9	5	3	2	1.5	1.25	1.125	14
	17	9	5	3	2	1.5	1.25	15
	33	17	9	5	3	2	1.5	16

*Fig. 10*

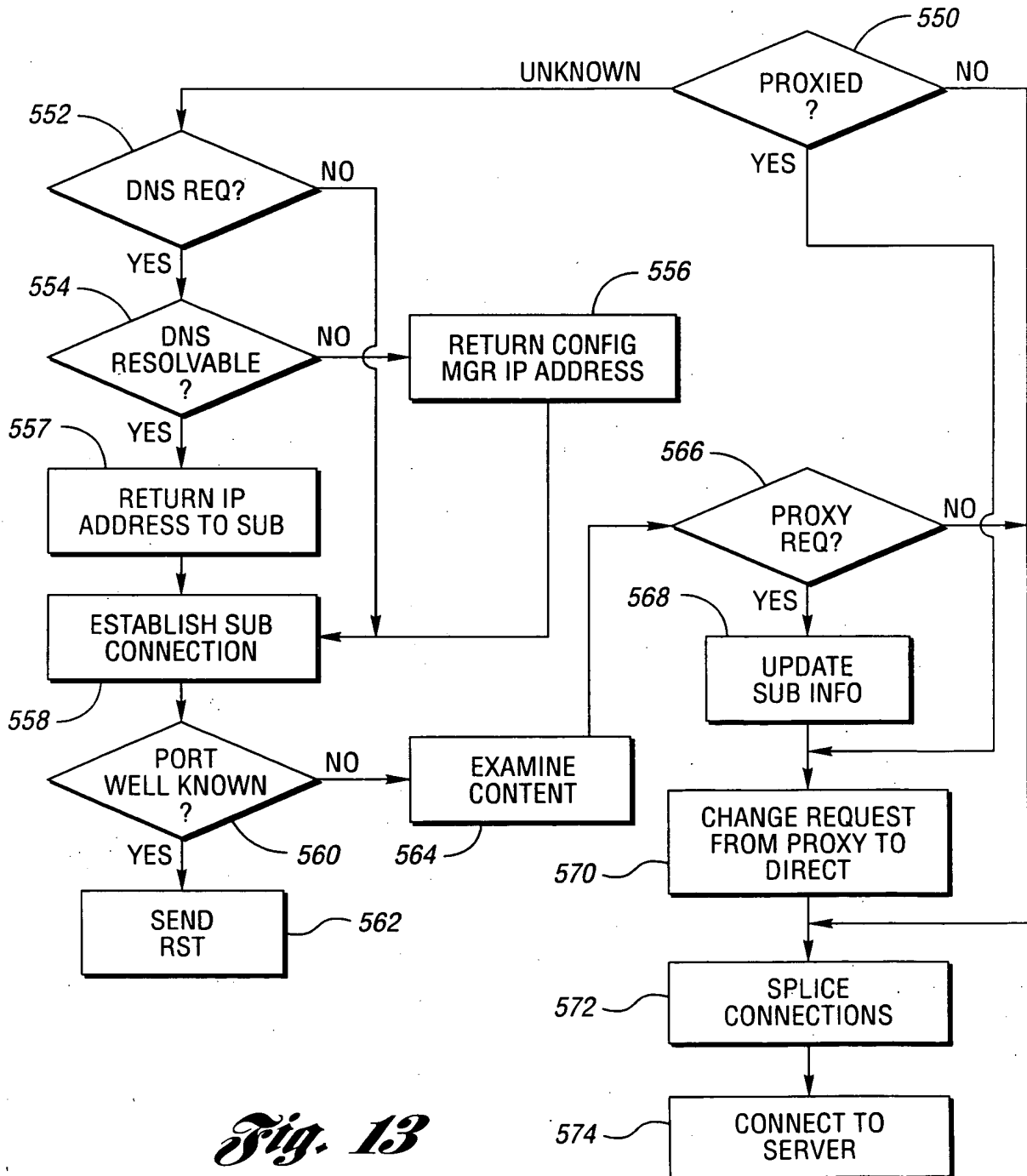
AVERAGE # SEARCHES



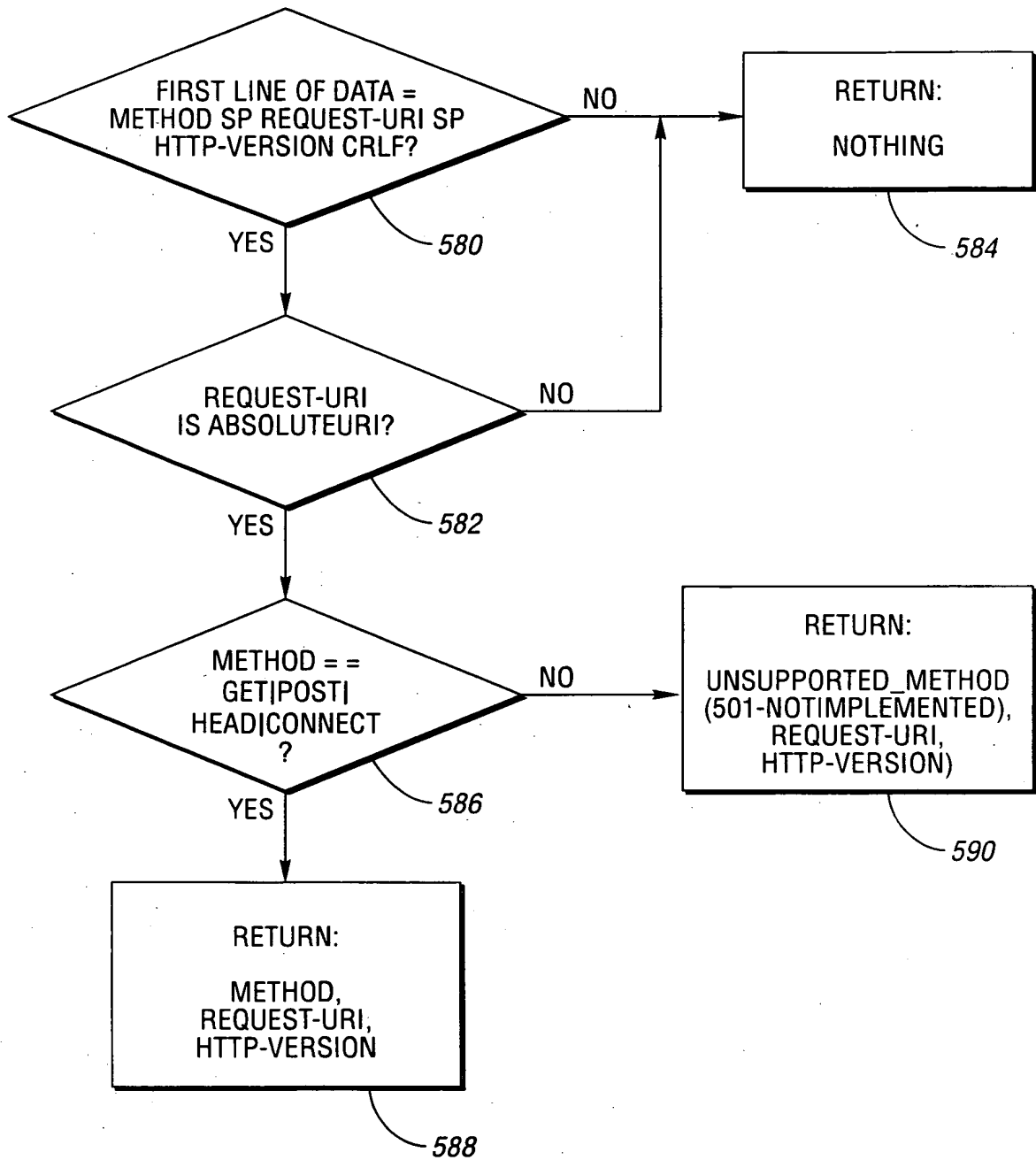
*Fig. 11*



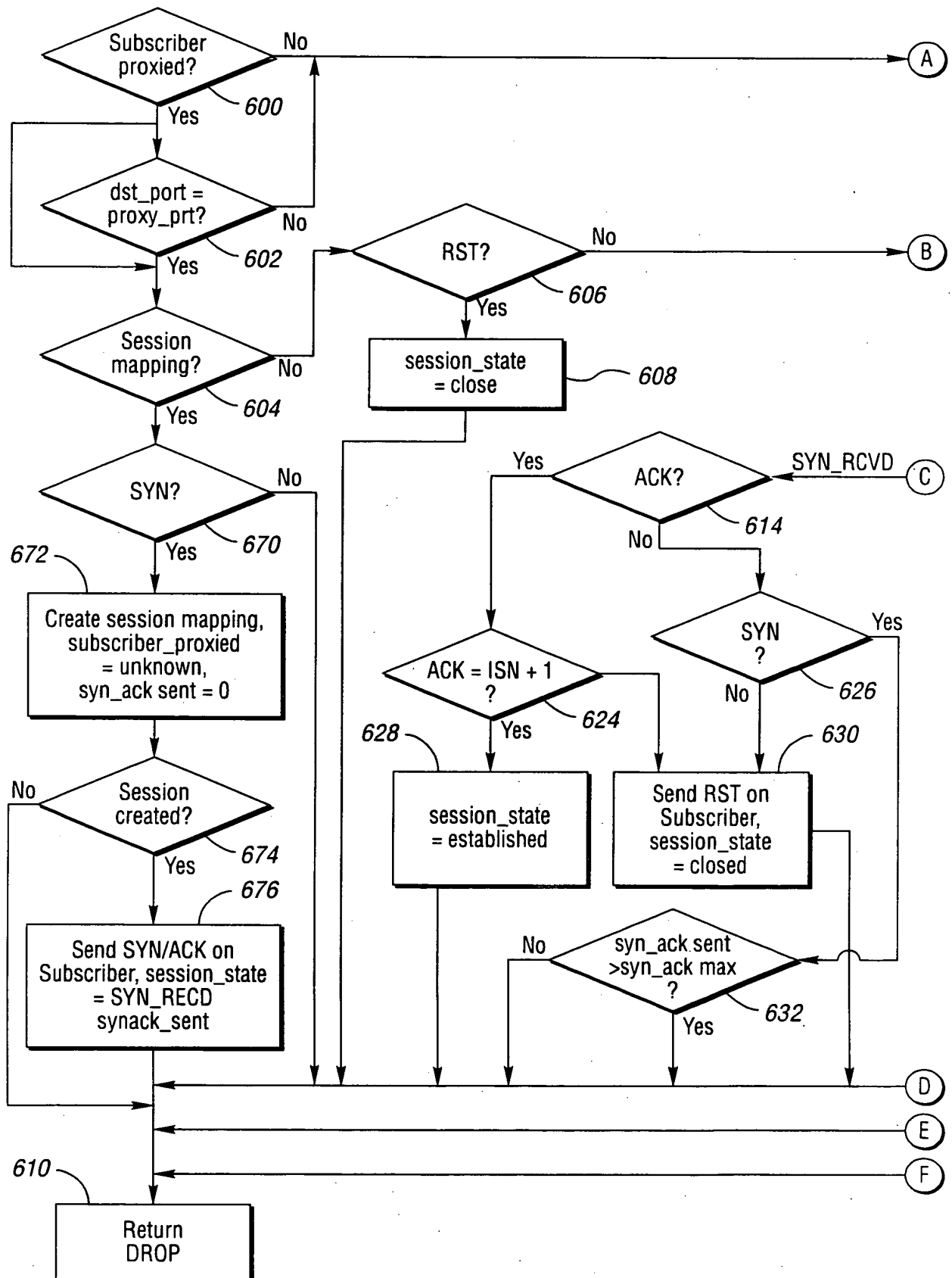
*Fig. 12*



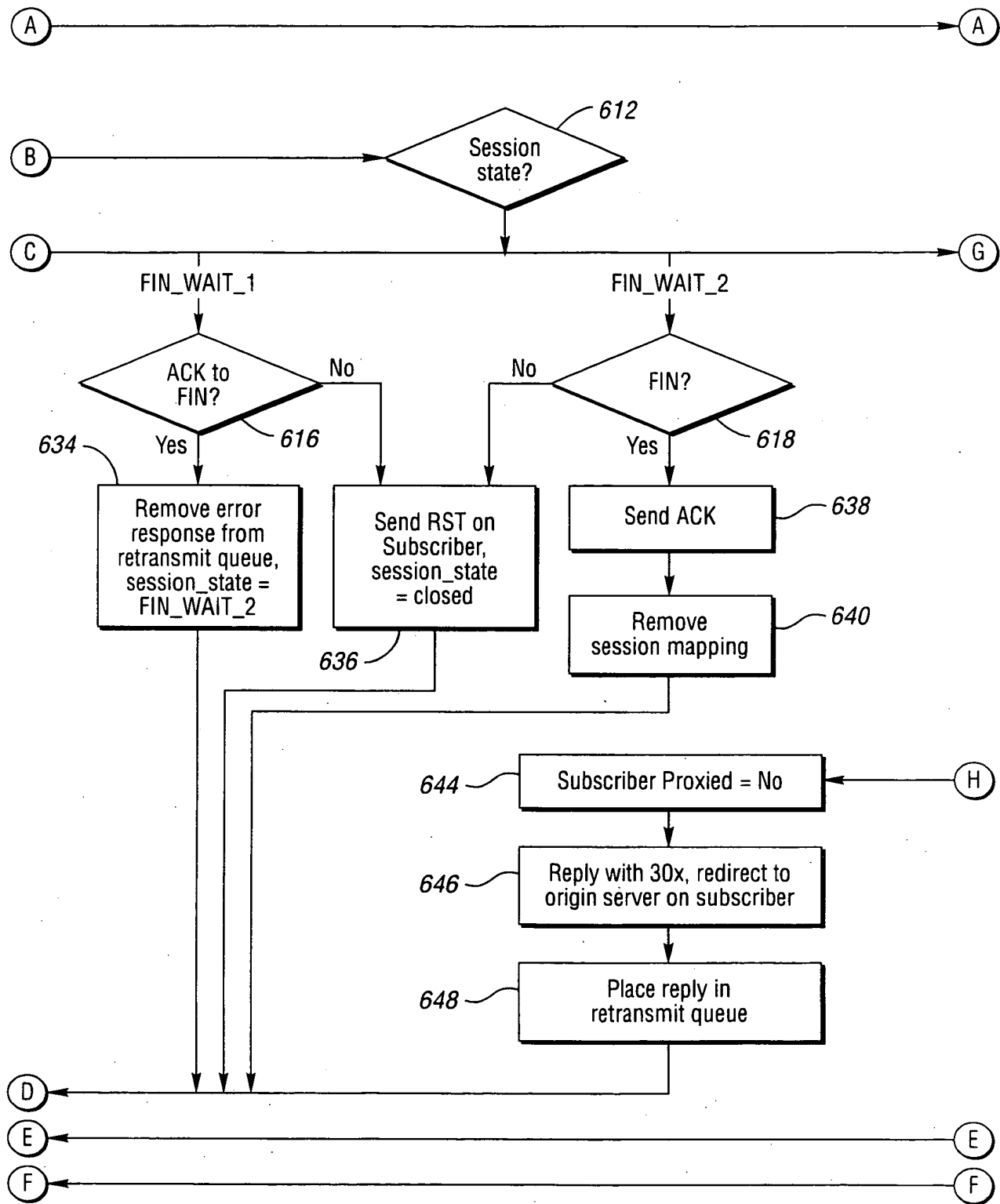
*Fig. 13*



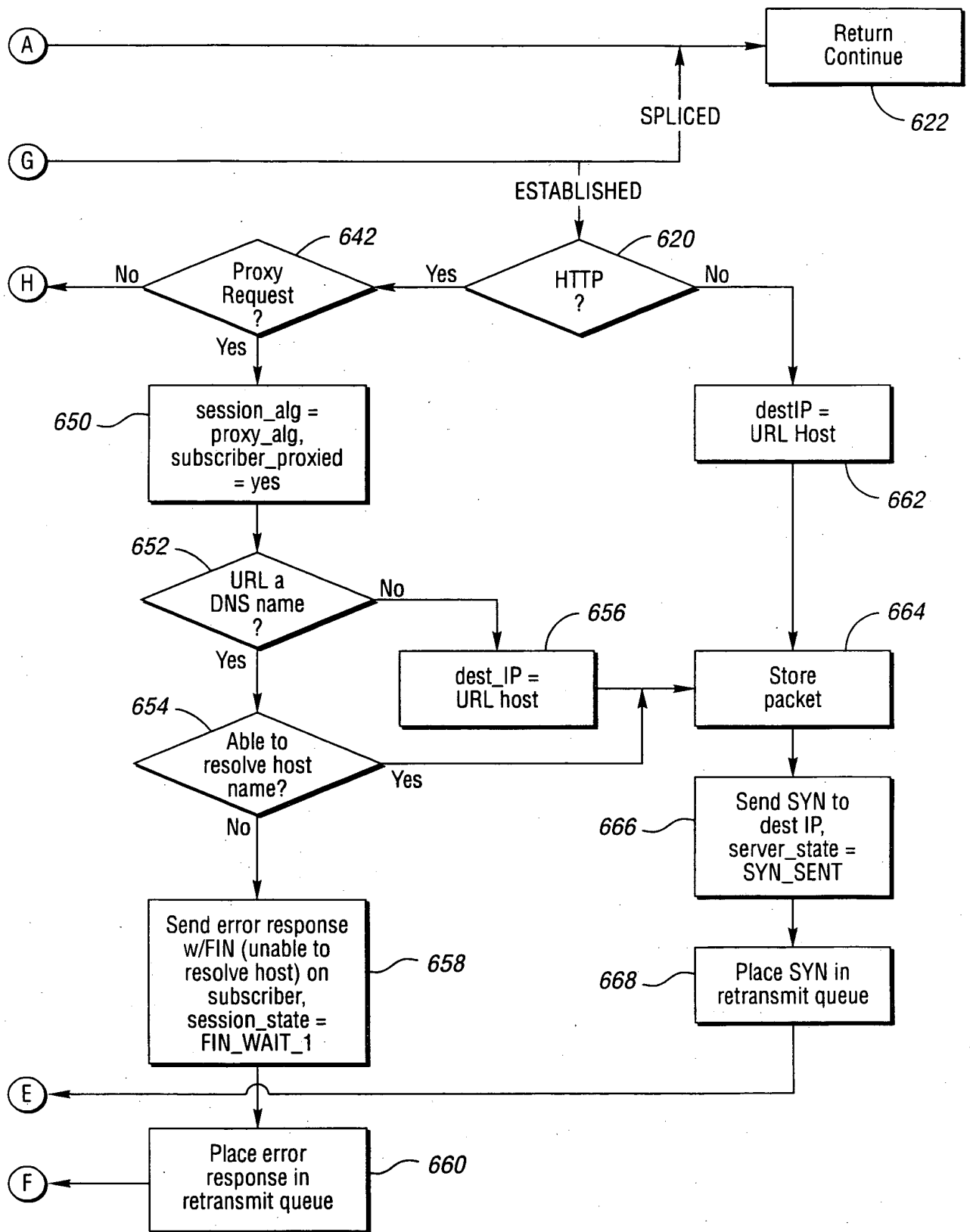
*Fig. 14*



*Fig. 15a*

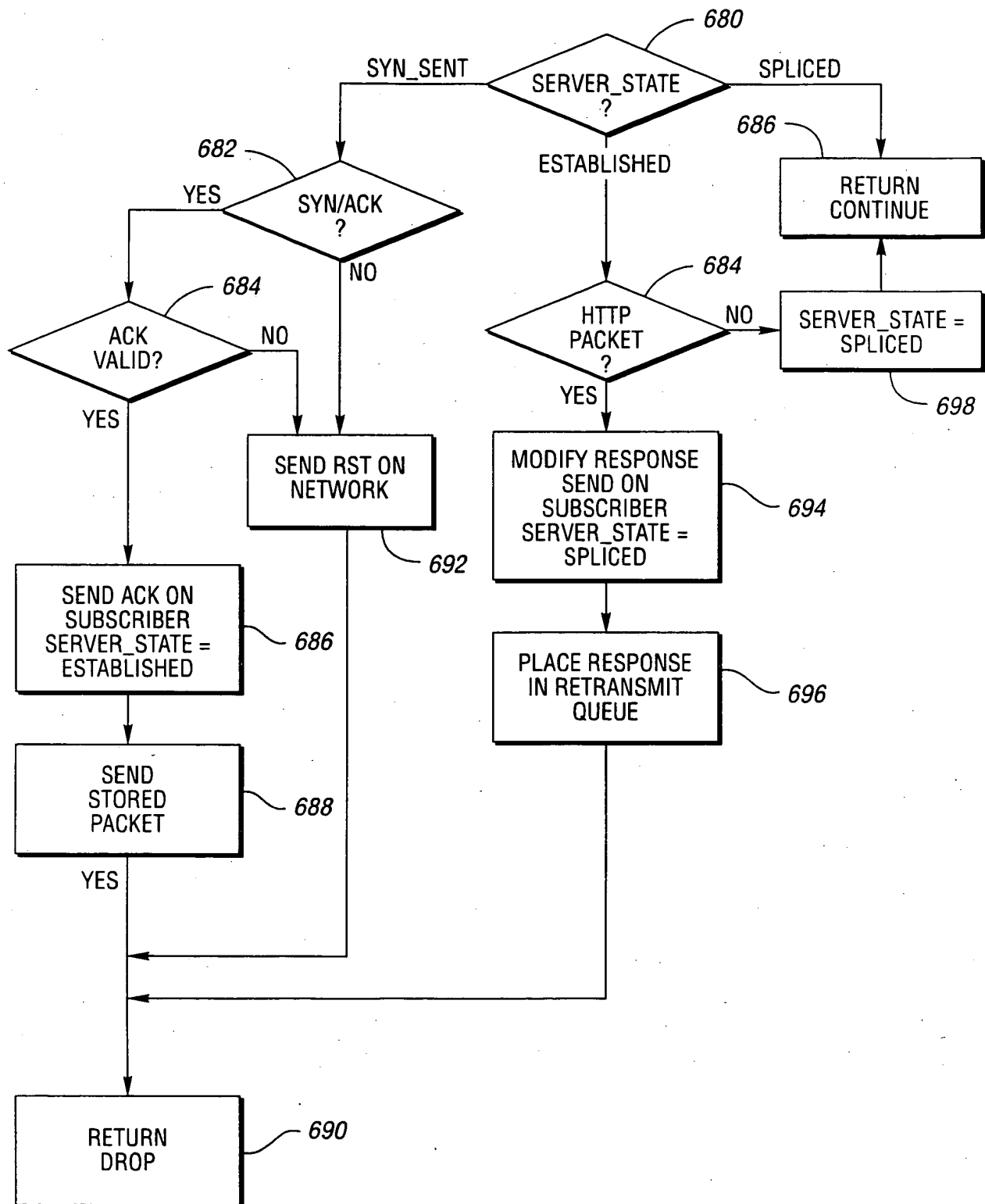


*Fig. 15b*

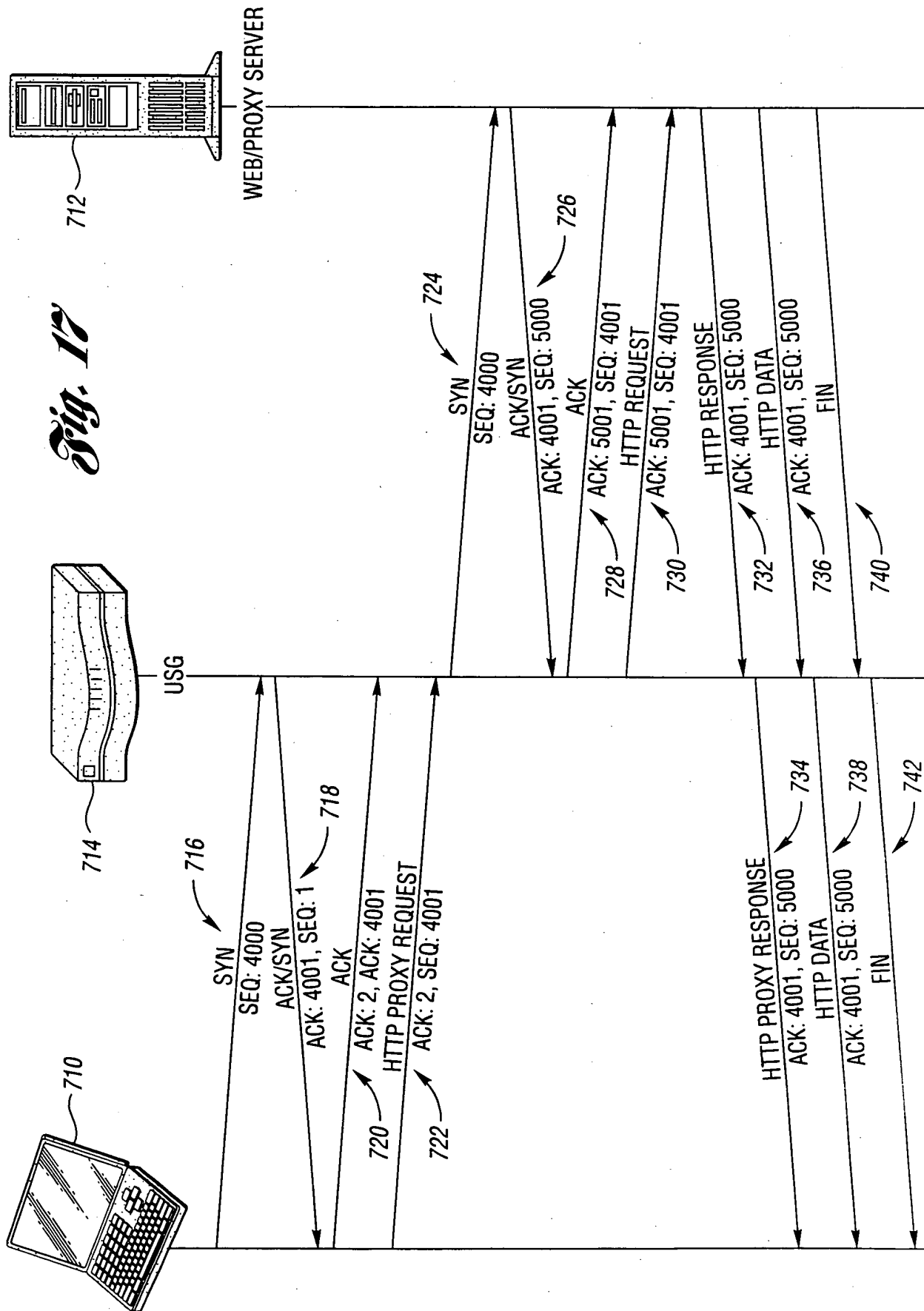


*Fig. 15c*





*Fig. 16*



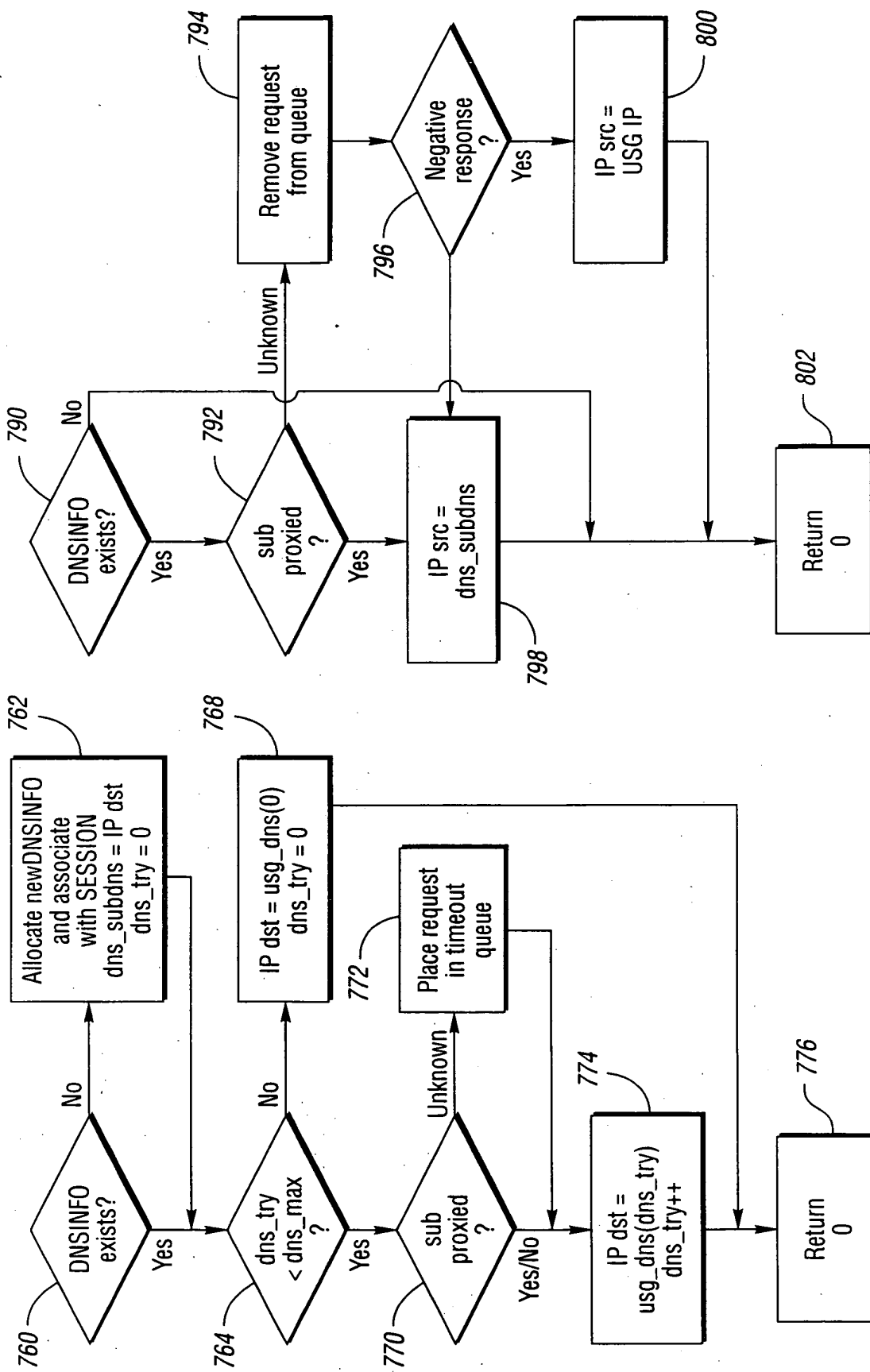


Fig. 18

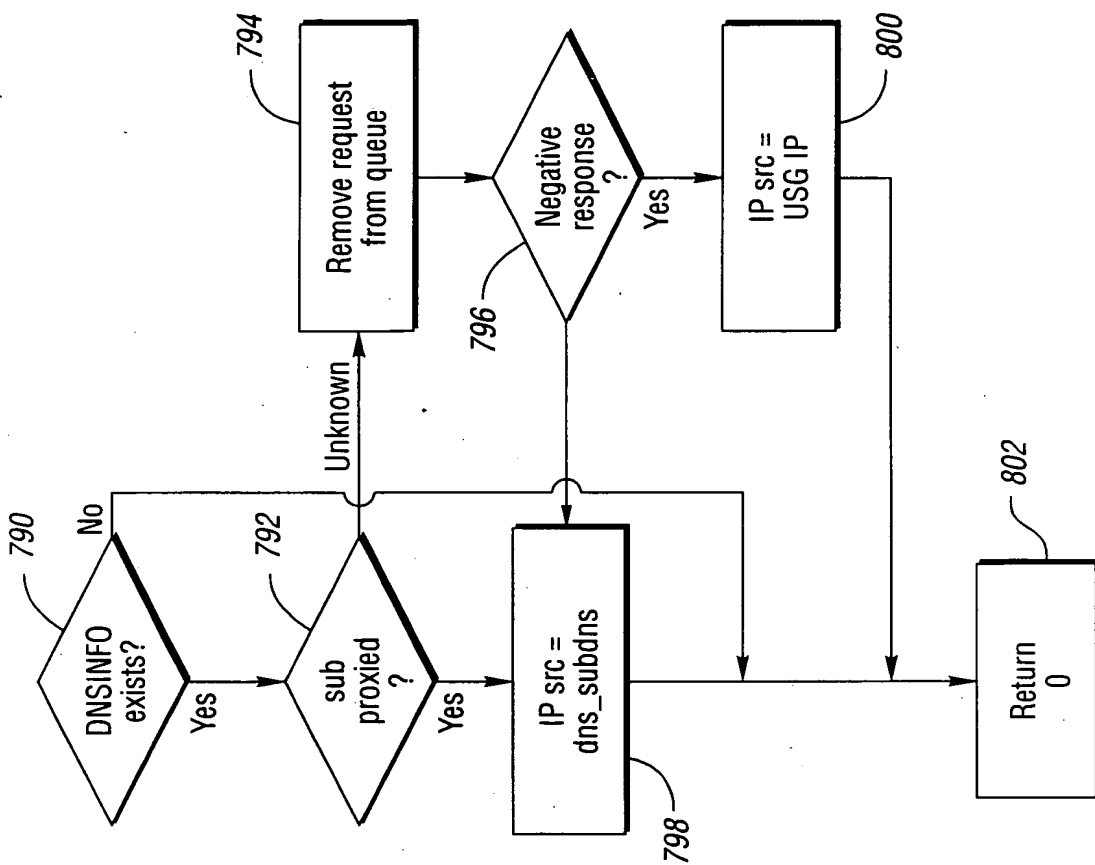
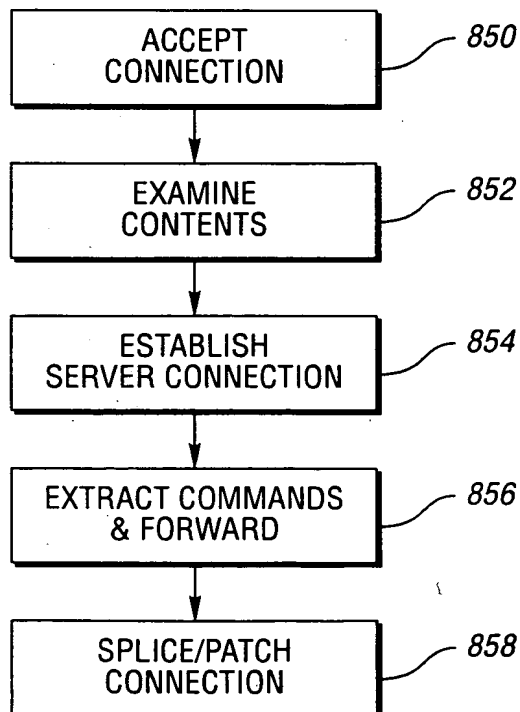
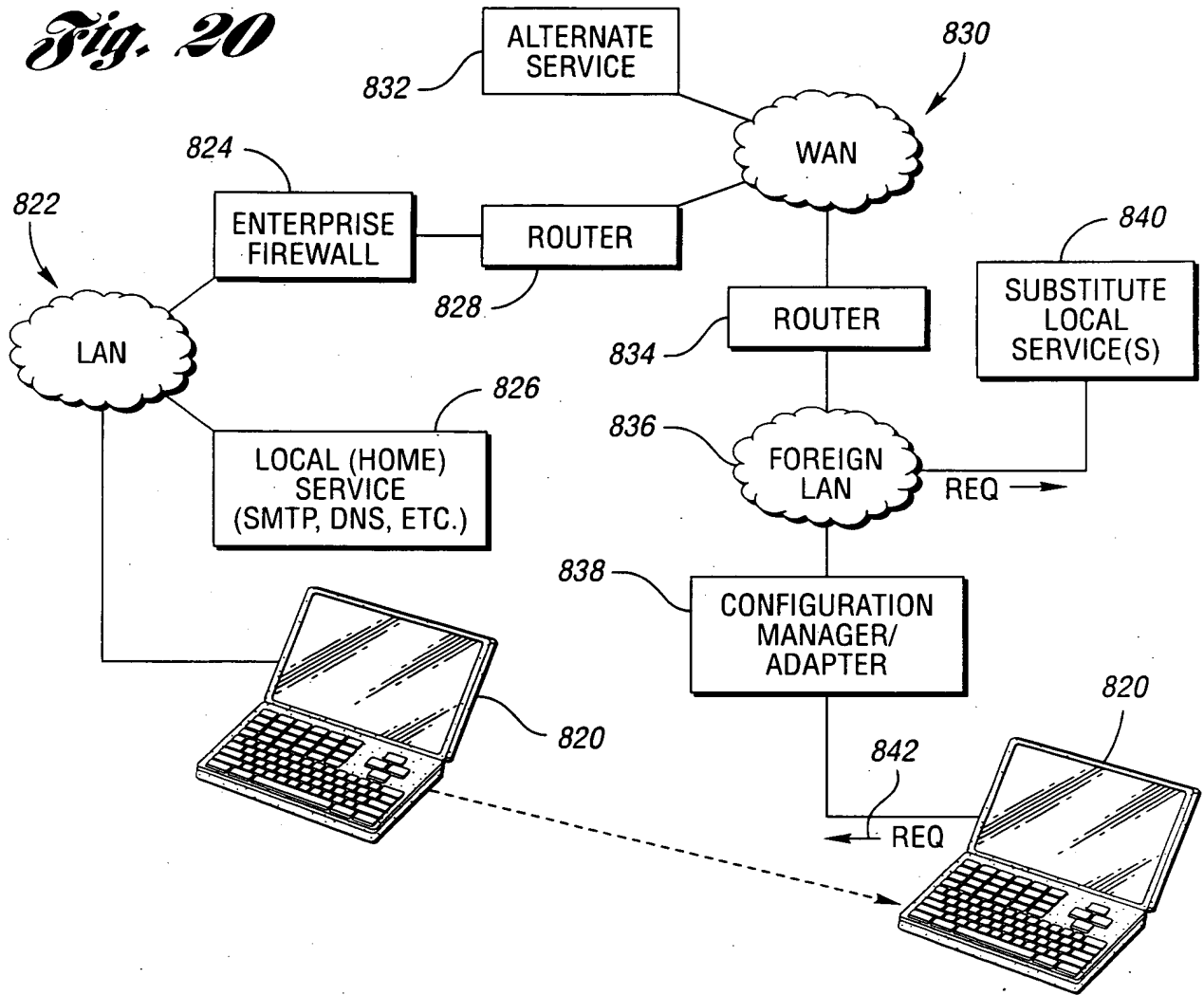


Fig. 19

*Fig. 20*



*Fig. 21*